

**Abstract**

Apparatus for configuring an externally coated workpiece are provided. In one example, the apparatus includes a tubular reconfiguration chamber having a plurality of slidably mounted outer walls, the outer walls slidably mounted along individual radial lines emanating from and orthogonal to the central longitudinal axis of the tubular reconfiguration chamber; and a means for adjusting and maintaining the temperature of the external coating of a work-piece located within the tubular reconfiguration chamber. In another example the apparatus includes a reconfiguration chamber; a nozzle in fluid communication with the reconfiguration chamber, a regulator in fluid communication with the nozzle, the regulator adapted to regulate the flow of a thermal transfer fluid exiting the nozzle, and a controller in communication with the regulator, the controller adapted to send control signals to the regulator to maintain the surface temperature of the external coating of the reconfigurable work-piece within a predetermined temperature range, the predetermined temperature range associated with a predetermined minimum hardness of the external coating of the reconfigurable work-piece.